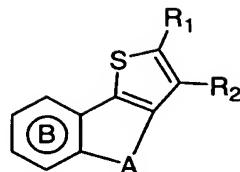


What is claimed is:

1        A compound of formula I

5



I

10        or isomers, tautomers, polymorphs, carriers, prodrugs, pharmaceutically acceptable salts thereof, wherein;

15        A is  $(CH_2)_m$  or  $(CH_2)_m-W-(CH_2)_n$ , wherein A is optionally substituted with one or more substituent independently selected from the group consisting of sulfamyl, halo, alkyl, alkoxy, hydroxyl and haloalkyl,  $CF_3$ ,  $COCF_3$ ,  $CN$ ,  $NO_2$ , hydrido,  $OR^3$ ,  $OCOOR^3$ ,  $CO_2H$ ,  $CO_2R^3$ ,  $CONH_2$ ,  $CONHR^3$ ,  $CON(R^3)_2$ ,  $COR^3$ ,  $SR^3$ ,  $SOR^3$ ,  $SCOOR^3$ ,  $SO_2R^3$ ,  $NH_2$ ,  $NHR^3$ ,  $NR^3R^3$ ,  $NR^3COR^3$ ,  $NR^3CONHR^3$ ,  $NR^3SO_2R^3$ ,  $NR^3SO_2NHR^3$ ,  $SO_2NHR^3$ , and  $SO_2N(R^3)_2$ ;

20        B is a 6-membered aromatic hydrocarbon ring, optionally substituted with one or more substituent independently selected from the group consisting of  $OR^3$ ,  $SR^4$ ,  $SO_2N(R^4)_2$ ,  $NHR^4$ ,  $NHCOR^4$ ,  $NR^4COR^4$ ,  $NHCO(OR^4)$ ,  $NR^4CO(OR^4)$ ,  $NHCONHR^3$ ,  $NR^3CONHR^4$ ,  $NR^3SO_2R^4$ ,  $NHSO_2R^4$ ,  $NHSO_2N(R^4)_2$ ,  $NHCONR^4R^4$ ,  $CO_2R^4$ ,  $CON(R^4)_2$ , aryl, heteroaryl, heterocyclic, halo, alkylthio, alkylsulfinyl, alkylsulfonyl, cyano, carboxyl, alkoxy carbonyl, amido, N-monoalkylamido, N-monoaryl amido, alkyl, alkenyl, alkynyl, N,N-dialkylamido, N-alkyl-N-aryl amido, haloalkyl hydrido, hydroxyl, alkoxy, hydroxyalkyl, haloalkoxy, sulfamyl, N-alkylsulfamyl, amino, alkylamino, and nitro;

25

30

W is S(O)p, O, CH=N, N(O)=CH, and NR<sup>4</sup>;

m is 0 to 3, inclusive;

n is 0 to 3, inclusive;

p is 0 to 2, inclusive;

5

R<sup>1</sup> and R<sup>2</sup> are independently selected from the group consisting of : hydrido, cyano, nitro, hydroxyl, alkyl, hydroxyalkyl, haloalkyl, alkoxy, haloalkoxy, amidine, guanidine, CONHR<sup>5</sup>, NHR<sup>5</sup>, and NHCXNHR<sup>5</sup>, wherein X is O, S, or NR<sup>6</sup>;

10

R<sup>3</sup> is selected from the group consisting of: hydrido, aryl, heteroaryl, lower alkyl, alkenyl, alkynyl, and heteroalkyl;

15

R<sup>4</sup> is selected from the group consisting of: lower alkyl, aryl, heteroaryl, arylalkyl, heteroalkyl, haloalkyl, arylalkylamino, and heteroarylalkyl, wherein aryl, arylalkyl, heteroaryl, or heteroarylalkyl are optionally substituted with one or more radical selected from alkyl, alkoxy, halo, haloalkyl, cyano, haloalkoxy, acyl, carboxyl, hydroxy, hydroxyalkyloxy, phenoxy, benzyloxy, dialkylaminoalkyloxy, and heterocyclic;

20

R<sup>5</sup> is selected from the group consisting of: hydrido, alkyl, aminoalkyl, hydroxyalkyl, haloalkyl, and acyl;

25

R<sup>6</sup> is selected from the group consisting of: hydrido, alkyl, cyano, and nitro.

With the proviso, when W is CH=N and m is 0, the nitrogen atom in CH=N has to be directly attached to the ring B.

2 The compound of claim 1, wherein A is (CH<sub>2</sub>)<sub>2</sub>.

30

3 The compound of claim 1, wherein A is (CH<sub>2</sub>)<sub>3</sub>.

4 The compound of claim 2 or 3, wherein R<sup>1</sup> is NHR<sup>5</sup>.

5        The compound of claim 4, wherein R<sup>1</sup> is NHCOCH<sub>3</sub>.

6        The compound of claim 4 wherein R<sup>1</sup> is NHCONHR<sup>5</sup>.

5

7        The compound of claim 6 wherein R<sup>1</sup> is NHCONH<sub>2</sub>.

8        The compound of claim 2 or 3, wherein R<sup>2</sup> is CONHR<sup>5</sup>.

10      9       The compound of claim 8 wherein R<sup>2</sup> is CONH<sub>2</sub>.

10      The compound of claim 8 wherein R<sup>1</sup> is NHCOCH<sub>3</sub> or NHCONH<sub>2</sub>.

11      The compound of claim 1 selected from the group consisting of:

15

3-amino-4,5-dihydroronaphtho[1,2-b]thiophene-2-carboxamide,

3-amino-8-methoxy-4,5-dihydroronaphtho[1,2-b]thiophene-2-  
carboxamide,

3-[(2-aminoethyl)amino]-4,5-dihydroronaphtho[1,2-b]thiophene-2-  
carboxamide hydrobromide,

3-[(3-aminopropyl)amino]-4,5-dihydroronaphtho[1,2-b]thiophene-2-  
carboxamide hydrochloride,

3-[(aminocarbonyl)amino]-4,5-dihydroronaphtho[1,2-b]thiophene-2-  
carboxamide,

25      2-amino-4,5-dihydroronaphtho[1,2-b]thiophene-3-carbonitrile,

2-(acetylamino)-4,5-dihydroronaphtho[1,2-b]thiophene-3-  
carboxamide, and

2-[(aminocarbonyl)amino]-4,5-dihydroronaphtho[1,2-b]thiophene-3-  
carboxamide.

30

12      The compound of claim 1 selected from the group consisting of:

2-[(aminocarbonyl)amino]-7-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-6,7-dimethoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-isopropyl-8-methoxy-4,5-dihydro-naphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-4,4-dimethyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-8-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-4-ethyl-4-methyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-4,4-diethyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-8-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-7-methoxy-5,5-dimethyl-4,5-dihydro-naphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-ethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7,8-dimethoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

30 2-[(aminocarbonyl)amino]-6,9-dimethoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-7-methyl-4,5-dihydroronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-7,9-dimethoxy-4,5-dihydroronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6,7-dimethyl-4,5-dihydroronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-ethyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-7,8-dimethyl-4,5-dihydroronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-tert-butyl-4,5-dihydroronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-propyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-6-ethoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-butyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-9-propoxy-4,5-dihydroronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-isopropoxy-4,5-dihydroronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-butoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-[(aminocarbonyl)amino]-9-isobutoxy-4,5-dihydroronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-sec-butoxy-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-methoxy-6-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-8-methoxy-9-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-isopropyl-8-methoxy-9-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-7-isopropyl-6-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-isopropyl-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-bromo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-5,5,8-trimethyl-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-chloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-chloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-8-chloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6,8-dichloro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-7,8-dichloro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5,5-dimethyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)-mino]-4,5,5-trimethyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

30 2-[(aminocarbonyl)amino]-8-hexyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

6-(acetylamino)-2-[(aminocarbonyl)amino]-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-bromo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-6-fluoro-9-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-4-ethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6,9-dimethyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

10 2-[(aminocarbonyl)-mino]-7-ethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-propoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-8-ethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-hydroxy-8-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-8-nitro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6,8-dimethoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-6-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-methoxy-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-[(aminocarbonyl)amino]-8-methoxy-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-chloro-7-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-(hydroxy-methyl)-7-methoxy-4,5-dihydro-naphtho[1,2-b]thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-6-bromo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-iodo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-8-bromo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-iodo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6,8-dimethyl-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-6-(methylthio)-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-(methyl-sulfonyl)-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-ethynyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-8-chloro-5-methyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-(methylthio)-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-8-(methyl-sulfonyl)-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-chloro-5-methyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-(ethylthio)-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

30 2-[(aminocarbonyl)amino]-8-(ethyl-sulfonyl)-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-chloro-5-methyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-(ethylthio)-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-6-(ethyl-sulfonyl)-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-chloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-9-methoxy-4,4-dimethyl-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-methoxy-7-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-methoxy-8-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-[(aminocarbonyl)-amino]-6-methoxy-7-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)-amino]-9-methoxy-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)-amino]-6,7-diethoxy-4,5-dihydronaphtho[-1,2-b]-thiophene-3-carboxamide,

20 2-[(aminocarbonyl)-amino]-8-ethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)-amino]-8-isopropyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

25 2-[(aminocarbonyl)-amino]-7,9-dimethyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)-amino]-8-tert-butyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)-amino]-7-methoxy-9-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-[(aminocarbonyl)-amino]-6,8-difluoro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)-amino]-7-isopropoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)-amino]-6-chloro-9-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-7,9-dichloro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-(trifluoro-methyl)-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-methoxy-6-(methylthio)-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-9-methoxy-6-(methylsulfonyl)-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6-ethoxy-9-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-6,9-diethoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8,9-dimethyl-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7,8-dinitro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-7-nitro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-methoxy-4,7-dimethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-6-methoxy-5-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-iodo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7-chloro-8-nitro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

30 2-[(aminocarbonyl)amino]-5,8-dimethyl-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5-ethyl-8-methyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

benzyl 3-(aminocarbonyl)-2-[(amino-carbonyl)amino]-4,5-dihydronaphtho[1,2-b]thien-8-ylcarbamate,

5 8-amino-2-[(aminocarbonyl)amino]-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

8-(acetylamino)-2-[(aminocarbonyl)amino]-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5-isopropyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-6,9-dichloro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-tert-butyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-5,5,7-trimethyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5-butyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5-butyl-7-methyl-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-5-butyl-7-fluoro-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5-butyl-7-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-5-butyl-7,8-dimethoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-(acetylamino)-6-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6,7-dimethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-isopropyl-8-methoxy-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-4,4-dimethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-(acetylamino)-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-8-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-(acetylamino)-4-ethyl-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-4,4-diethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-(acetylamino)-8-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-methoxy-5,5-dimethyl-4,5-dihydronaphtho-[1,2-b]-thiophene-3-carboxamide,

20 2-(acetylamino)-9-ethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7,8-dimethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

25 2-(acetylamino)-6,9-dimethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-(acetylamino)-7-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-8-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide

2-(acetylamino)-7,9-dimethoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-(acetylamino)-6,7-dimethyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-ethyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-(acetylamino)-7,8-dimethyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-tert-butyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-propyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-(acetylamino)-6-ethoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-butyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-propoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

20 2-(acetylamino)-9-isopropoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-butoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

25 2-(acetylamino)-9-isobutoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-sec-butoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-methoxy-6-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-(acetylamino)-8-methoxy-9-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6-isopropyl-8-methoxy-9-methyl-4,5-dihydronaphtho-[1,2b]thiophene-3-carboxamide,

2-(acetylamino)-7-isopropyl-6-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

5 2-(acetylamino)-7-isopropyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-bromo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-(acetylamino)-5,5,8-trimethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6-chloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-chloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-(acetylamino)-8-chloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6,8-dichloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7,8-dichloro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

20 2-(acetylamino)-5,5-dimethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-4,5,5-trimethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

25 2-(acetylamino)-8-hexyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2,6-bis(acetylamino)-4,5-dihydronaphtho-[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-bromo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-(acetylamino)-6-fluoro-9-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-4-ethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6,9-dimethyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-ethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-(acetylamino)-7-propoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-8-ethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-(acetylamino)-5-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-hydroxy-8-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-8-nitro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-(acetylamino)-6,8-dimethoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-fluoro-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

20 2-(acetylamino)-6-methoxy-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide

2-(acetylamino)-8-methoxy-4-methyl-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

25 2-(acetylamino)-6-chloro-7-methoxy-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-8-(hydroxymethyl)-7-methoxy-4,5-dihydronaphtho[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-6-bromo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

30 2-(acetylamino)-6-iodo-4,5-dihydronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-8-bromo-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-8-iodo-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
5 2-(acetylamino)-6,8-dimethyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-6-(methylthio)-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
10 2-(acetylamino)-6-(methylsulfonyl)-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-8-ethynyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-8-chloro-5-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
15 2-(acetylamino)-8-(methylthio)-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-8-(methylsulfonyl)-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-8-(ethylthio)-4,5-dihydroronaphtho[1,2b]thiophene-3-carboxamide,  
20 2-(acetylamino)-8-(ethylsulfonyl)-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-6-chloro-5-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
25 2-(acetylamino)-6-(ethylthio)-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-6-(ethylsulfonyl)-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
2-(acetylamino)-9-chloro-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,  
30 2-(acetylamino)-9-methoxy-4,4-dimethyl-4,5-dihydroronaphtho[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-8-methoxy-7-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-methoxy-8-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-(acetylamino)-6-methoxy-7-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-methoxy-4-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6,7-diethoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-(acetylamino)-8-ethyl-4,5-dihydro-naphtho[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-8-isopropyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-(acetylamino)-7,9-dimethyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide

2-(acetylamino)-8-tert-butyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-methoxy-9-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

20 2-(acetylamino)-6,8-difluoro-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-isopropoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

25 2-(acetylamino)-6-chloro-9-methoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7,9-dichloro-4,5-dihydroronaphtho[1,2-b-thiophene-3-carboxamide,

2-(acetylamino)-8-(trifluoromethyl)-4,5-dihydroronaphtho[1,2-b] thiophene-3-carboxamide,

30 2-(acetylamino)-9-methoxy-6-(methylthio)-4,5-dihydroronaphtho[1,2-b] -thiophene-3-carboxamide,

2-(acetylamino)-9-methoxy-6-(methyl-sulfonyl)-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6-ethoxy-9-methoxy-4,5-dihydronephtho-[1,2-b]thiophene-3-carboxamide,

5 2-(acetylamino)-6,9-diethoxy-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-8,9-dimethyl-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

10 2-(acetylamino)-7,8-dinitro-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-nitro-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

15 2-(acetylamino)-8-methoxy-4,7-dimethyl-4,5-dihydronephtho[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-6-methoxy-5-methyl-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7-iodo-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

20 2-(acetylamino)-7-chloro-8-nitro-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-5,8-dimethyl-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-5-ethyl-8-methyl-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

25 benzyl 2-(acetyl-amino)-3-(amino-carbonyl)-4,5-dihydronephtho[1,2-b]-thien-8-ylcarbamate,

2-(acetylamino)-8-amino-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2,8-bis(acetylamino)-4,5-dihydronephtho-[1,2-b]thiophene-3-carboxamide,

30 2-(acetylamino)-5-isopropyl-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6,9-dichloro-4,5-dihydronephtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-9-tert-butyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-5,5,7-trimethyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

5 2-(acetylamino)-5-butyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-5-butyl-7-methyl-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

10 2-(acetylamino)-5-butyl-7-fluoro-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-5-butyl-7-methoxy-4,5-dihydroronaphtho[1,2-b]thiophene-3-carboxamide,

15 2-(acetylamino)-5-butyl-7,8-dimethoxy-4,5-dihydroronaphtho-[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-5,6-dihydro-4H-benzo-[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

20 2-(acetylamino)-9-chloro-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-8,9-dichloro-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-

25 2-(acetylamino)-9-methoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-8,10-dimethoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta-[1,2-b]thiophene-3-carboxamide,

30 2-(acetylamino)-8-methyl-5,6-dihydro-4H-benzo-[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-8,9-dimethoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-8-fluoro-9-methoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-7-methoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

5 2-(acetylamino)-6,9-dimethyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-10-methoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

10 2-(acetylamino)-9-bromo-6-methyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-7,8-dimethoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-(acetylamino)-6-methyl-5,6-dihydro-4H-benzo-[6,7]cyclohepta-[1,2-b]-thiophene-3-carboxamide,

15 2-(acetylamino)-9-chloro-6-methyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-9-fluoro-5,6-dihydro-4H-benzo-[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-9-methyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

20 2-(acetylamino)-9-amino-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-(acetylamino)-9-nitro-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

25 2-(acetylamino)-9,10-dimethoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]-thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-chloro-5,6-dihydro-4H-benzo[6,7]cyclo-

30 hepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8,9-dichloro-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-methoxy-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-methoxy-6,6-dimethyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

5 2-[(aminocarbonyl)amino]-9-methoxy-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8,10-dimethoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-methyl-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

10 2-[(aminocarbonyl)amino]-8,9-dimethoxy-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-8-fluoro-9-methoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

15 2-[(aminocarbonyl)amino]-7-methoxy-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-6,9-dimethyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-10-methoxy-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

20 2-[(aminocarbonyl)amino]-9-bromo-6-methyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-7,8-dimethoxy-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

25 2-[(aminocarbonyl)amino]-6-methyl-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-chloro-6-methyl-5,6-dihydro-4H-benzo[6,7]cyclohepta[1,2-b]thiophene-3-carboxamide,

2-[(aminocarbonyl)amino]-9-fluoro-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

30 2-[(aminocarbonyl)amino]-9-methyl-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,

9-amino-2-[(aminocarbonyl)amino]-5,6-dihydro-4H-benzo-[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide,  
2-[(aminocarbonyl)amino]-9-nitro-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide, and  
5 2-[(aminocarbonyl)amino]-9,10-dimethoxy-5,6-dihydro-4H-benzo[6,7]-cyclohepta[1,2-b]thiophene-3-carboxamide.

13 A composition comprising the compound of claim 1, 2, 3, 11, or 12, and at least one pharmaceutically acceptable carrier.

10 14 A method of treating cancer, inflammation or an inflammation associated disorder in a subject, said method comprising administering to the subject having or susceptible to such cancer, inflammation or inflammation associated disorder, a therapeutically-effective amount of a compound of

15 claim 1, 2, 3, 11, or 12.

15 The method of claim 14 for use in the treatment of cancer.

16 The method of claim 14 for use in the treatment of inflammation.

20 17 The method of claim 14 for use in the treatment of an inflammation-associated disorder.

18 The method of claim 17 wherein the inflammation-associated disorder is

25 arthritis.

19 The method of claim 17 wherein the inflammation-associated disorder is pain

30 20 The method of claim 17 wherein the inflammation-associated disorder is fever.

- 21 The method of claim 17 wherein the inflammation-associated disorder is asthma.
- 22 The method of claim 17 wherein the inflammation-associated disorder is inflammatory bowel disease.  
5